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FILE 'AGRICOLA, BIOSIS, CABAB, CAPLUS, FOMAD, FOREGE, FROSTI, FSTA,
JICST-EPLUS, PROMT, NTIS, SCISEARCH' ENTERED AT 10:27:59 ON 17 NOV 1999

L1 20 S (COPRA OR COCONUT) AND HEMICELLULASE
L2 11 DUP REM L1 (9 DUPLICATES REMOVED)
L3 0 S MANNOSE AND HEMICELLULASE AND FEED
L4 45 S MANNOSE AND ENZYM? AND FEED
L5 34 DUP REM L4 (11 DUPLICATES REMOVED)

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| coconut adj meal | 0 |
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Document Number 4

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File: DWPI

Jul 9, 1996

DERWENT-ACC-NO: 1996-365490

DERWENT-WEEK: 199637

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TITLE: Feeds contg. mannose gp. polysaccharides for prevention of *Salmonella* contamination - prep'd. by culture of mammase producing microorganism in mannan-contg. medium to cause partial decomposition of mannan.

PATENT-ASSIGNEE: HOSHIDA S [HOSHI], SEIBUTSU KAGAKU SANGYO KENKYUSHO KK[SEIBN], YONICHI KAGAKU KENKYUSHO KKYUSHO KK[YONIN]

PRIORITY-DATA:

1994JP-0340863

December 21, 1994

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|--------------|----------|-------|------------|
| JP 08173055 A | July 9, 1996 | N/A | 004 | A23K001/16 |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-NO |
|-------------|-------------------|----------------|---------|
| JP08173055A | December 21, 1994 | 1994JP-0340863 | N/A |

INT-CL (IPC): A23 K 1/16; A23 K 1/18; A61 K 47/36

ABSTRACTED-PUB-NO: JP08173055A

BASIC-ABSTRACT:

Feeds for prevention of contamination with *Salmonella* bacteria are prep'd. by culture of a mammase producing microorganism in a medium contg. mannan to cause autodigestion and partial decompn. of mannan.

Mannan derived from various plants (e.g. Palmae, Liliaceae, soybeans and guar gum) is decomposed by culture of mannan degrading enzyme producing microorganisms (e.g. beta-mannosidase derived from *Bacillus subtilis* ATCC 12711 and hemicellulase derived from *Aspergillus niger*). The produced mannose gp. polysaccharide mixt. is used for feeds.

ADVANTAGE - Prevention of colonisation of food poisoning causative *Salmonella* bacteria in the intestine.

In an example, a kneaded mixt. of 100 kg of copra meal powder and 500 g of honey was adjusted to contain 65% of water and pH 5.0 with 0.5% citric acid. *Aspergillus niger* IFO 8541 was inoculated to the mixt. and cultured under aeration for 4 days. Then 100 kg of copra meal was added and caused to react at 50 deg. C for 12 hrs. The reaction mixt. was filtered and the filtrate was spray dried to give the mannose gp. polysaccharide contg. feed. Addn. of the prod. to feed of chicken at a rate of 0.25% resulted death rate of 0.33% due to fatty liver and egg prodn. out of grade at 1.2%, while control gp. without addn. showed corresponding rate of 1.52% and 2.8%, respectivel y.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

FEED CONTAIN MANNOSE GROUP PREVENT SALMONELLA CONTAMINATE PREPARATION CULTURE
PRODUCE MICROORGANISM MANNAN CONTAIN MEDIUM CAUSE DECOMPOSE MANNAN

DERWENT-CLASS: B04 D13

CPI-CODES: B04-C02F; B14-A01A8; D03-G01; D05-A02C;

CHEMICAL-CODES:

Chemical Indexing M1 *01* Fragmentation Code M423 M710 M903 N131 Q214 V735

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-115104

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